automator™

200

URC-200

Owner's Manual

THE POWER OF SIMPLE.™

A GREAT REMOTE FOR ENTHUSIASTS!

UNIVERSAL® remote control

Thank You!

Thank you for purchasing the Automator™ URC-200 Pre-Programmed and Learning Remote Control. The Quick Setup DVD tutorial supplied with the Automator demonstrates the process of setting up and automating a home entertainment system. Watch the DVD first to familiarize yourself with the capabilities of the Automator and the setup process. This manual is designed to assist you step-by-step as you setup the Automator to replace all of your remote controls and automate your home entertainment system.

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Getting Started

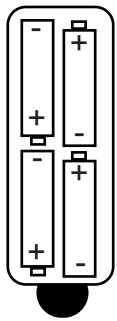
Congratulations!

You've purchased one of the most advanced and easy to setup control systems available. The Automator's built-in library includes thousands of different brands and models of remote controls. In most systems, all you have to do to setup the Automator is enter which brands and models you own. If you own a component too new to be in the library, the Automator uses advanced DoubleTap™ Learning technology to quickly set each Automator button, one at a time. Setting up your Automator to replace all your existing remote controls can be done in a few minutes. Basic Setup is described on pages 5 to 14.

The Automator's exciting advanced features automate and customize operation in many ways. You could use Macro Setup to power on all of your components and start the show with the press of one button! With the Automator's unique Favorite Channel capability, you can tune in a channel with the press of one button instead of entering the entire channel number. Any of the button names on the display can be edited as you like. It is best to delay any Advanced Setup (described on pages 15 to 29) until after you finish Basic Setup.

Battery Installation

Remove the battery compartment cover by pressing up the cover lock. Insert four AAA batteries into the battery compartment as shown in the diagram.



Button Layout

Selecting a New DEVICE Changes All Button Commands Instantly

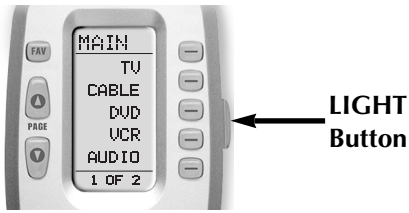
The Automator can operate ten different devices even though it is only one remote control. Let's try it now!

Press the MAIN button, then press the TV DEVICE button.

The top of the screen changes from MAIN to TV. Now all of the buttons change their function to operate a TV. Press the page buttons. Watch the labels of the display buttons change with each press. There are five pages of display buttons already labeled for TV operation. To operate another of your components (e.g., VCR, DVD, etc.), press the MAIN button to return to the MAIN menu. The MAIN menu displays five of your Devices on the screen. Simply press one of the screen-labeled Device buttons to operate another device. If you don't see the device name you want, then use the PAGE buttons to display the remaining five devices on page 2 of the MAIN menu.

Light Button

Press the LIGHT button to backlight all the buttons. To turn off the backlighting, press the LIGHT button again, or just wait ten seconds (the backlighting automatically shuts itself off).



Basic Setup

You can start setting up your Automator using either the Pre-Programmed Method or the Learning Method. However, all the buttons of the Automator are setup at once with the Pre-Programmed Method, so it is usually faster than the one-button-at-a-time Learning Method.

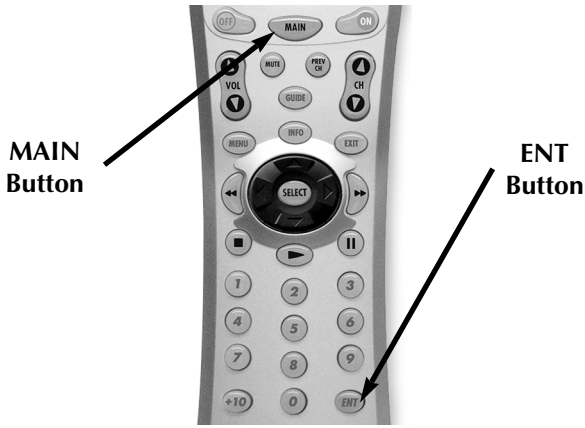
Pre-Programmed Method

1. Power on the A/V component you wish to setup, so that you can test codes by sending power off commands.

2. Refer to the pre-programmed code tables on pages 33 - 47 and write down the code numbers listed for your A/V component. The code numbers are listed by categories of devices, then by brand. See page 33 for a category list.

3. Press and hold both the MAIN and ENT (Enter) buttons for approximately three seconds. The top of the display will show “SETUP”. You are in SETUP mode now.

   Note: You have 30 seconds to perform a step while you are in SETUP mode. If you don’t press a button within that time, the Automator will time out and return to normal operation.



4 Press the P-PRO button to select the Pre-Programmed Method.

P-PRO Button

The display changes so that you can select which Device button to setup.

First Five Device Names

Press a Page button to display the other five Device names.

5 In this step you choose the name of the device you'd like to setup. Use the cursor UP or DOWN buttons to change the flashing name. When it is correct, press the SELECT button.

UP

DOWN

SELECT

For Example: I wanted to setup the TV Device button first, so I pressed the cursor UP or DOWN until "TV" was flashing in the display.

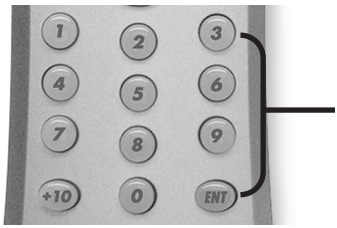
The bottom of the display will flash "FROM TABLE".

6 In this step you verify the type of component you plan to operate with this device button. If the flashing name is correct, press SELECT.

If the name flashing in the display is incorrect (for example, you are setting up AUX to operate a Laser Disc Player), use the UP and DOWN buttons to change the flashing name to the correct type of component.

Note: Each name that appears in the display may include several types of components. For example, the DVD category includes DVD players and Laser Disc Players. See page 33 for a list of component types each Code Table contains.

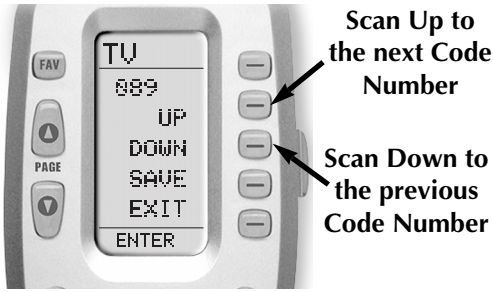
7 Point the Automator at the component, then enter the first three digit code number from your notes using the numbered buttons. After you enter each three digit number, look at the component to see if it turned off.



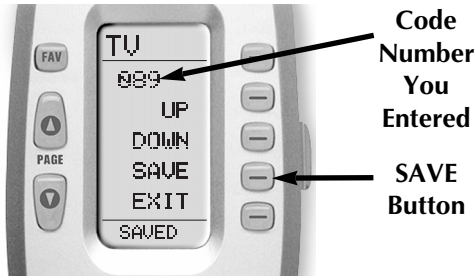
Continue to enter code numbers until the component powers off.

For Example: I have a Sony TV. I found the code numbers 070, 139,147, 126, 185, 194 and 085 under Sony in the TV TABLE. Using the numbered buttons on the Automator, I entered 070 and looked at the TV. It didn't turn off, so I entered 139, then 147 and so on, until I found the code that powered off the TV.

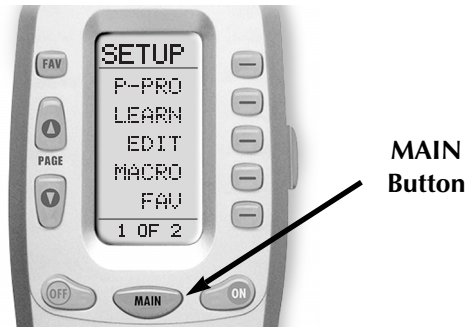
Note: If your component fails to turn off after you have entered all the code numbers listed for your brand, you can scan through the other brands in the table by alternately pressing the UP (or DOWN) and POWER OFF buttons.



8 When the component turns off, save the code number you entered by pressing the SAVE button that appears on the screen.



9 Exit SETUP mode by pressing the MAIN button two times.



10 When the display shows “MAIN”, you are back in normal operating mode. Now it’s time to test all the buttons. If some buttons don’t work, try repeating steps 1-9, to see if you can improve the match to your component.

For Example: My Sony TV powered off with TV code number 139. However the number buttons didn’t work when I tested them. So, I repeated steps one to ten, using other code numbers and eventually discovered that when code number 185 is set, all the buttons work perfectly.

11 Repeat steps one through nine for each of your devices. In most systems, you can finish basic setup in just a few minutes and put all your old remote controls away.

If you are still missing commands to control any of your devices, use the Learning Method on the next page.

Learning Method

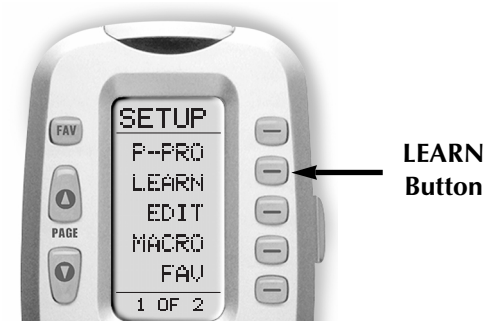
The Automator can learn commands from your old remote controls one-button-at-a-time by following these simple steps:

1. Line-up the Automator with your old remote control, head-to-head, one or two inches apart.

2. Press and hold the MAIN and ENT (Enter) buttons at the same time for approximately three seconds. The top of the display will show “SETUP”. You are in SETUP mode now.

   Note: You have 30 seconds to perform a step while you are in SETUP mode. If you don’t press a button within that time, the Automator will time out and return to normal operation.

3. Press the LEARN button.

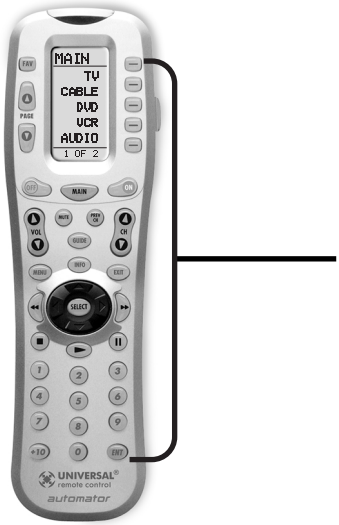


The top of the screen will change to “LEARN”.

4 The display will show a list of the first five devices.

5 Select the device you would like to teach commands to by pressing the Device button.

6 Press any button you want to teach a command to.



Note: If you don't see the display button you would like to teach, use the PAGE buttons. The only buttons you can't teach are the PAGE and MAIN buttons.

Once you press a button, the top of the display will change from "LEARN" to "READY".

7. Press and hold the button on your old remote control until the display changes to “RETRY”.

8. Press and hold the same button on your old remote control once again.

The Automator’s unique DoubleTap learning technology ensures compatibility with the widest variety of remote controls ever!

9. Once you have taught the button twice, the display will change to either “GOOD” or “FAILED”.

If the “GOOD” label appears on top of the display, you were successful. Now, press the next button you wish to teach. Keep repeating steps 6 through 9 until you have learned all the buttons you want.

If the “FAILED” label appears on top of the display, try to teach the same button in Automator once again by repeating steps 6-8.

10. Continue to teach any commands from any of your remote controls by repeating steps 5-9 (to go back to step five, press MAIN once).

11. Once you completed teaching all the buttons, return to normal operation by pressing the MAIN button twice. Test all your new commands. If any of them don’t work, try learning again using these notes:

Move to another room. Plasma TVs, sunlight, halogen or quartz lighting can interfere with the learning process.

Although the old remote control seems to work fine, change the batteries to fresh alkaline batteries.

Vary the distance between the remote controls gradually. Try 1/4”, 1”, 2”and so on, up to 4 feet.

Tap the button on the original remote control instead of pressing and holding it during the learning process.

Volume Control Punch Through

In most home entertainment systems, the sound volume is only controlled by one device. In some systems, it is the TV speakers that make the sound, so you would use the TV device on the Automator to raise and lower the volume. In another system, it might be a surround sound receiver and speakers that control the sound, so you would use the Automator's AUDIO device to adjust the volume. Constantly switching the Automator to TV or AUDIO to adjust the volume is inconvenient in daily life.

You can use Punch Through to set the Automator's volume buttons to always control the sound in your system. That way when the Automator is set to VCR or DVD, the volume up, down and mute buttons will work perfectly without switching back to AUDIO or TV. Here's how:

1. Enter Setup mode by pressing and holding both MAIN and ENT for three seconds. The top of the display shows that you are in SETUP mode now.

   Note: You have 30 seconds for each step, otherwise the Automator will time out automatically.

2. Press the PAGE UP button to get to page 2 of the SETUP menu. Press the PUNCH button.

3. Press the VOL button. The display confirms by displaying "VOL" at the top of the screen. This sets up the group of three buttons (Volume Up, Volume Down and Mute) in one action!

4 The bottom of the display flashes "PUNCH TO". Press the device button for the device that doesn't have volume control commands yet (i.e.,DVD). This is the device you are going to PUNCH TO for the volume and mute commands.

Note: If you wish to PUNCH to the MAIN device, press the POWER OFF button at this time.

5 The bottom of the display will then flash "PUNCH FROM". Now you select the device that has the volume commands you want (i.e.,TV for systems using the TV speakers, AUDIO for systems with surround sound receivers). The bottom of the display will flash "SAVED".

6 Repeat steps 3-5 until all your devices operate the volume perfectly. Press the MAIN button twice to return to normal operating mode and test your Punch Through settings.

Note: *The Punch Through feature is not limited to volume and can also be applied to channel or other functions. If you find yourself switching to a particular device frequently to use a group of controls, consider using Punch Through for another group, as listed here:*

VOL - Volume Up, Volume Down and Mute
CH - Channel Up, Channel Down and Prev. Channel
PLAY - Play, Stop, Pause, Rewind and Fast Forward
VOD - Guide, Menu, Info, Exit, Up, Down, Left, Right, Sel
POWER - Power On and Power Off

Advanced Operation

Setting Backlight Options

You can adjust the amount of time that the Automator backlight stays on by entering the SETUP mode and proceeding to page two (using the PAGE UP button), then pressing the LIGHT button on the display (not the Backlight button). Then enter the amount of time you would like the light to stay on using the number pad (0-99 seconds). After making your selection, press the SAVE button.

If you don't want backlighting at all (this extends battery life), press the ON button that appears on the screen. The ON will change to OFF. Press the SAVE button. Exit the setup mode by pressing the MAIN button.

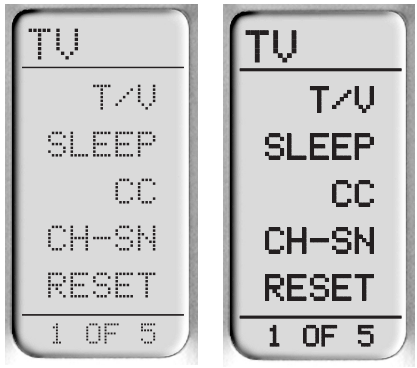
The FAV Button

When you press the FAV button, the display changes to a list of your favorite TV channels. Each button can be set to instantly select the channel on your TV. There are eight pages of five favorite channel buttons for a total of 40. Simply touch the PAGE buttons to display the other favorite channels. To return to the last device you viewed, press MAIN once (a second press will take you to the MAIN menu).

To setup your Favorite Channel buttons go to page 22.

Adjusting Contrast

You can make the text darker by pressing both the MAIN and cursor UP buttons at the same time. To make the text appear lighter, press both the MAIN and cursor DOWN buttons at the same time.



Contrast set low. Contrast set high.

Transmitting (Busy Signal) Icon

When a command is being transmitted, an icon will appear in the top right corner of the display. It is a useful aid when setting up Macros and FAVs, since it flashes with every step of a sequence of commands.

Advanced Setup

After you've finished all your basic setup, you can choose to make operation easier by customizing the Automator just the way you want, using the Advanced Setup features described in this section.

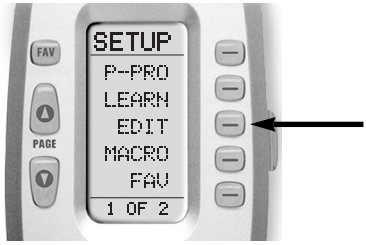
Editing Button Labels

You can change the name of any of the display buttons (including Favorite Channels) by following these steps:

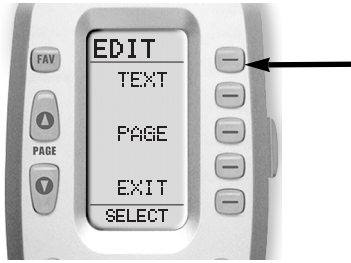
1. Press and hold both the MAIN and ENT (Enter) buttons for approximately three seconds. The top of the display will show "SETUP". You are in SETUP mode now.

   Note: You have 30 seconds to perform a step while you are in SETUP mode. If you don't press a button within that time, the Automator will time out and return to normal operation.

2. Press the EDIT button.



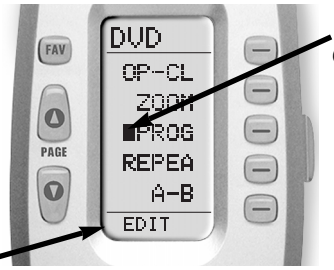
3. The display changes to the EDIT menu. Press the TEXT button.



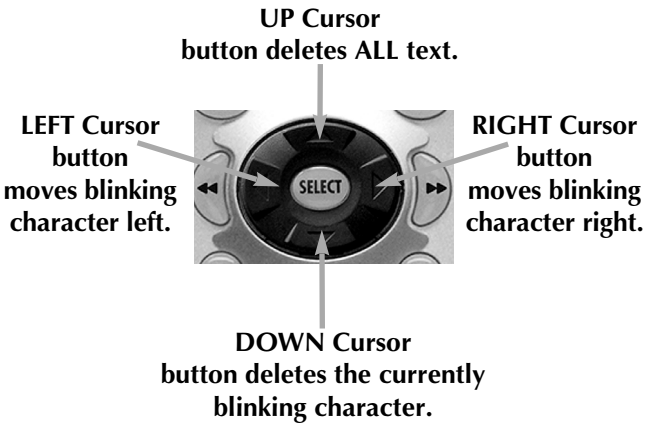
4 The screen displays the list of devices and "EDIT" will appear at the top of the screen. Navigate to the device and page where there is a button label you want to EDIT, selecting between the FAV, MAIN, DEVICE; then using the PAGE button.

Note : If you wish to change the name of a DEVICE button, press the Page Up button twice. The top of the display changes to MAIN, and you can navigate to MAIN page 1 or page 2 before going on to Step 5.

5 Press the button you wish to edit. The first character of your button label blinks.



EDIT flashes at the bottom of the screen.


UP Cursor button deletes ALL text.
LEFT Cursor button moves blinking character left.
SELECT
RIGHT Cursor button moves blinking character right.
DOWN Cursor button deletes the currently blinking character.

6 Change the character by using any of the number keys. Each press of the same number button selects the next character of that number's group, as shown below.

7 Once the character you want appears, move to the next space by pressing the RIGHT cursor button.

8 When you are finished editing the button, press the button you edited and "SAVED" will flash at the bottom of the display.

To change any other button labels on the same device, press the next button, then repeat steps 6-8. If you wish to edit a button on another device, press the MAIN button once, then repeat Steps 4-8.

9 Once you've finished editing buttons, press the MAIN button four times to return to normal operation.

Macro Button Setup

Imagine turning on your TV, your DVD player and your surround sound receiver by pressing a single button on your Automator! What would normally take three remotes and three button pushes, the Automator can accomplish with the press of one button. We call that a "Macro". Any of the Display buttons, the Power On or the Power Off buttons (on any Device or Page) can be set to be Macro buttons!

To setup a macro button, follow these easy steps:

1. Enter the SETUP mode by pressing and holding both MAIN and ENT for three seconds.

   Note: You have 30 seconds for each step, otherwise the Automator will time out automatically.

2. Press the MACRO button. The top of the display will show "MACRO". The bottom of the display will flash "SELECT".

3. Navigate to the Device and Page where there is a button you would like to set as a Macro button using the MAIN, DEVICE, and PAGE buttons.

Advanced Options:
If you wish to set one of the DEVICE buttons as a macro, on step 3, press the Page Up button twice. The top of the display changes to MAIN, and you can navigate to MAIN page 1 or page 2 before going on to Step 4.

Another option for DEVICE button macros is to only send the macro if the button is pressed and held. This is setup by entering a delay as the first step of the macro. The amount of delay determines how long the user must press the button before the macro is sent. The advantage of this option is that a normal press of the DEVICE button will simply switch devices without issuing the macro.

4. Press the button you want to set as a Macro button. The top of the screen will display the label of the button you selected. At the bottom of the screen it displays “STEP0”, indicating that no macro steps have been entered yet.

5. Navigate to the Device and Page that has a button you want in your macro using the MAIN, DEVICE and PAGE buttons. Then press the button with the command you want. Whenever a button is pressed, another Macro step is counted and displayed at the bottom of the screen.

   Don’t worry about the number of steps. Each macro button can store up to 190 steps, so you are not likely to run out of steps!

   Note: You can program delays in between commands by pressing the PAUSE button. Each press adds half a second to the delay.

6. Press the LIGHT button to end your macro. A new screen displays three choices:

SAVE — If you are happy with your macro, press the SAVE button.

UNDO — The UNDO button lets you erase the last step.

EXIT — The EXIT button erases all the macro steps.

7. Press the MAIN button twice to return to normal operation.

Favorite Channel Setup

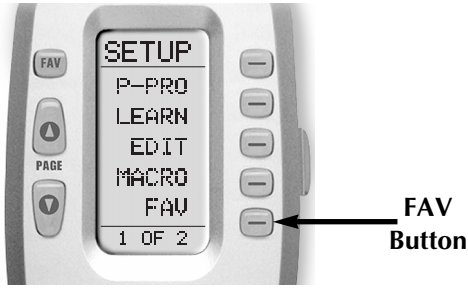
Imagine surfing all your favorite channels, without ever typing in a channel number. By simply setting up each of the favorite channel buttons, you can make TV, cable or satellite operation fun and easy.

To setup a Favorite Channel button, follow these steps:

1. Enter SETUP mode by pressing and holding both MAIN and ENT for three seconds.

   Note: You have 30 seconds for each step, otherwise the Automator will time out automatically.

2. Press the FAV display button.



   The top of the display will show “FAV”. The bottom of the display will flash “SELECT”.

3. Use the Page buttons until you can see the name (i.e., ABC, CBS, NBC) of the favorite channel you wish to setup.

4. Press the favorite channel button you wish to setup. The top of the screen changes to show the channel name. The bottom of the screen displays “STEP0”, indicating that you have not entered the channel number yet.

5. Press either the TV, SAT or CABLE Device button (select the device you use to enter channel numbers).

6 Press each of the number buttons for the channel.

Note: If a number is repeated when setting the channel (for example, channel "33" or "522") it is usually best to set a half second delay in between the identical numbers by pressing the PAUSE button. Each press of the PAUSE button increases the delay by a half second.

Note: Some brands of television require an ENT(Enter) command after the channel numbers.

7 Press the LIGHT button after you enter the channel number. A new screen appears:

8 To save the channel you entered, press the SAVE button. The UNDO button lets you erase the last entry. The EXIT button erases all entries for this button.

9 When you are finished setting up Favorite Channel buttons, press the MAIN button twice to return to normal operation.

Hiding and Adding Pages

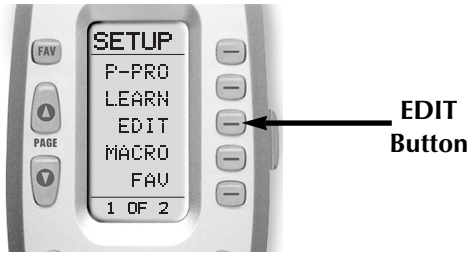
Each of your Automator Devices actually contains eight pages. However, only five pages are visible in the factory default setting. Three pages are hidden in each device. If you wish to use the hidden pages, you can ADD them. If you don't want to use some of the existing pages, you can HIDE them. You can add or hide pages on devices OR on your favorite channel pages using this simple process:

> **Note:** Be sure to program your Macros before you hide pages with potential macro in them. You can't access hidden pages during macro setup. However, after you finish Macro setup, you can hide pages without affecting operation of your macros.

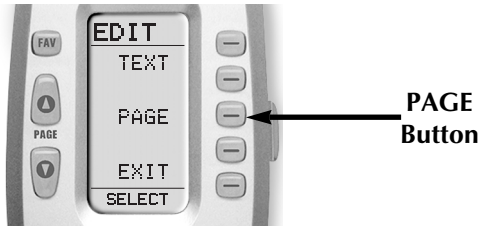
1. Enter SETUP mode by pressing and holding both MAIN and ENT for three seconds.

> **Note:** You have 30 seconds for each step, otherwise the Automator will time out automatically.

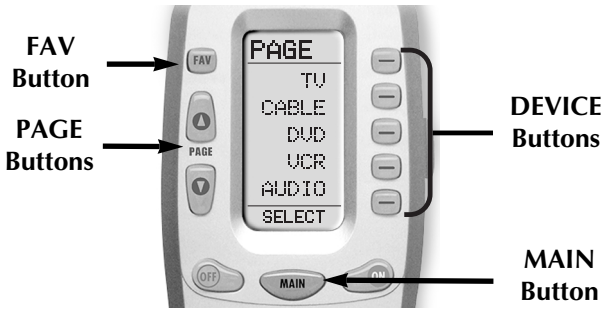
2. Press the EDIT button.



3. Press the PAGE button.



4 "PAGE" appears at the top of the screen. Now, you can navigate to any page, using the MAIN, DEVICE, FAV, and PAGE buttons.



5 When you select a page, the top of the screen indicates whether you want to "ADD?" or "HIDE?" the page displayed. When you would like to change a page's visibility, press the LIGHT button.

This page is hidden. To ADD it, press the LIGHT button.

This page is visible. To HIDE it, press the LIGHT button.

6 You can continue to ADD or HIDE pages on other devices by repeating Steps 4 and 5.

7 When you are finished adding and hiding pages, press the MAIN button four times to return to normal operation.

Overview of Erasing

You can erase an individual button with a learned command, a macro or a favorite channel. You can erase an entire Device's learned command or macro buttons. You can also erase ALL your learned commands on all devices or all your macros or favorite channels everywhere.

If you really want a fresh start, it is possible to reset everything to the factory default condition.

Erasing Learned Buttons, Macros or Favs

1. Enter SETUP mode by pressing and holding both MAIN and ENT for three seconds.

   Note: You have 30 seconds for each step, otherwise the Automator will time out automatically.

2. Press a PAGE button to display page two of Setup.

3. Press the ERASE button.

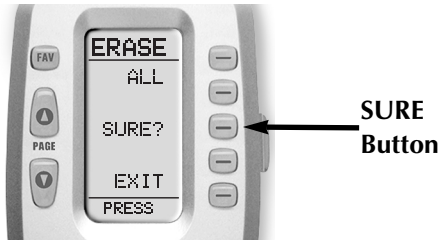
4. Press either the LEARN, MACRO or FAV button. The following screen appears:

ALL — *Erases all of the specified (Learned, Macro or FAV) buttons everywhere in the Automator.*

DEVICE— *Erases all Learned or Macro buttons in a Device (this option doesn't appear for FAVS)*

KEY— *Erases one button only.*

5 If you press ALL, the Automator displays a SURE? button. After the SURE button is pressed, all the buttons will be erased.



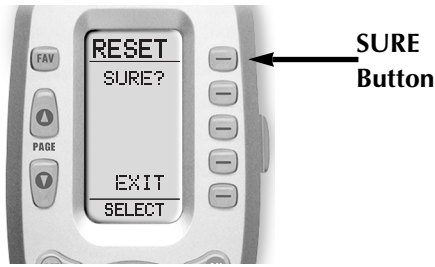
If you press DEVICE, a list of Devices will appear. Press the device button that you wish to erase. The bottom of the screen will flash ERASE twice, then ERASED.

If you press KEY, you'll have to navigate to the Device and Page you want using the MAIN, DEVICE and PAGE buttons. Press a button to erase it. The bottom of the display will flash ERASE twice, then ERASED.

6 To return to normal operating mode, press the MAIN button four times.

Erasing the Entire Automator

To erase EVERYTHING, press and hold both the MAIN and the STOP buttons for 10 seconds. After 10 seconds, the RESET screen appears. Press the SURE button to erase all of your settings and return to the factory default setup.



Cloning One Automator to Another

If you own two or more Automators, you can copy and transfer all the setup from one Automator to another. Just follow these easy steps:

1. Enter SETUP mode by pressing and holding both MAIN and ENT for three seconds.

   Note: You have 30 seconds for each step, otherwise the Automator will time out automatically.

2. Press a PAGE button to display page two of Setup.

3. Press the CLONE button.

4. Align the two Automators head-to-head, about an inch apart.

5. Press the RECV display button on the new Automator you would like to setup by cloning.

6. Press the SEND display button on the Automator you previously setup.

7. Press the START button on the new Automator and then press the START button on the Automator you previously setup.

   Note: Cloning typically takes about 40 seconds.

   After completion, the cloned Automator will flash "GOOD".

8. Return to normal operation by pressing the MAIN button twice.

Recalling Pre-Programmed Settings

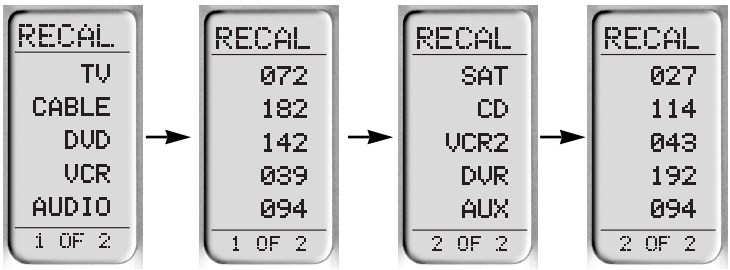
If you didn't write down the code numbers you setup your Automator with, you can recall them via this simple process:

1. Enter SETUP mode by pressing and holding both MAIN and ENT for three seconds.

   Note: You have 30 seconds for each step, otherwise the Automator will time out automatically.

2. Go to page two of the SETUP menu via the PAGE UP button.

3. Press the RECAL button. The display changes to the recall screens. The screen automatically switches between four screens, alternately flashing page one devices and code numbers then those for page two.



   Note: Pay attention to the page numbers on the bottom of the screen. Page 1 code numbers are the ones setup for the Page1 Devices. Page 2 code numbers are the ones setup for the Page 2 Devices.

4. Write down the code numbers as they appear. Page 32 of this manual gives a convenient list for you to note your settings.

5. Return to normal operation by pressing the MAIN button twice.

The Optional Expander

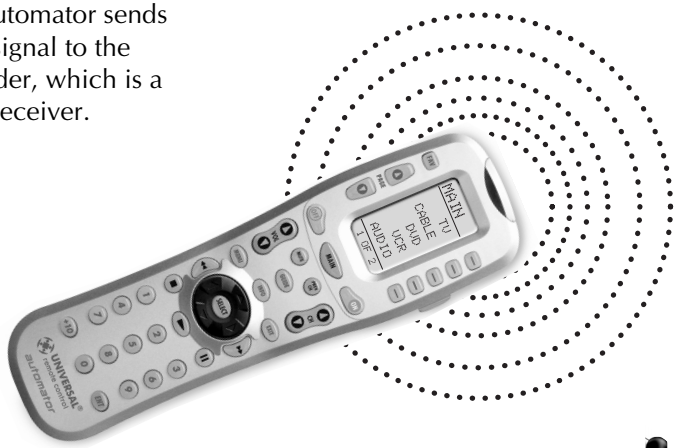
You can use the Automator as you would your other remote controls. It transmits very powerful line-of-sight output using infrared light commands (invisible to the naked eye). When you point the Automator at the components, expect the range to be between 30 and 50 feet. When the remote is not pointed in the general direction of the components, the range will vary (depending on reflective surfaces, lighting, etc.).

However, the Automator also sends radio signals in every direction. By purchasing the optional Expander (a radio receiver), you can operate your equipment with the Automator 50 to 100 feet away (through walls, doors, cabinets, inside or outside). Since the Expander picks up the Automator's radio signals from any direction, regardless of distance, the Automator *doesn't have to be pointed!*

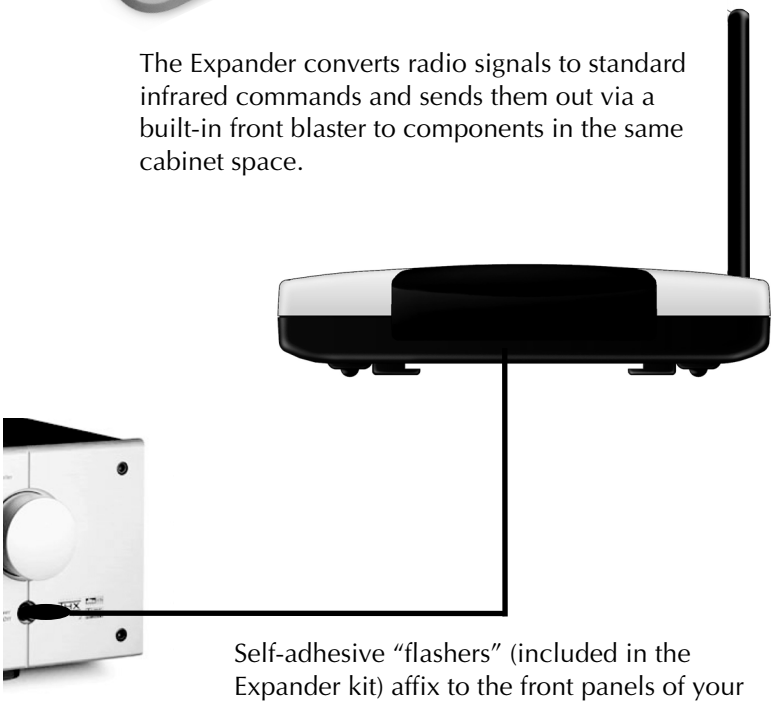
Nothing has to be done to the Automator for this feature to work. Every time you press a button on the Automator, it sends both a standard infrared command AND a radio signal. If you install the Expander kit, the MRF-100 will receive the Automator's radio signals and translate them into the infrared commands that control your components.

Note: The Automator's radio signals will not control components directly. You must have an Expander to receive the Automator's radio signals. Components that came with "no pointing" radio remote controls cannot be operated by the Automator unless the component can be switched to standard infrared control via its internal menus. Some remote control ceiling fans are radio only and cannot be operated by the Automator.

The Automator sends radio signal to the Expander, which is a radio receiver.



The Expander converts radio signals to standard infrared commands and sends them out via a built-in front blaster to components in the same cabinet space.



Self-adhesive “flashers” (included in the Expander kit) affix to the front panels of your components. The flashers relay infrared commands to components out-of-sight of the MRF-100 front blaster. The flashers plug into the MRF-100 rear flasher line output jacks. Each flasher has a 10′ cable to easily reach components on nearby shelves.

Pre-Programmed Code Notes

Record the code numbers for your system here:

TV ----------

CABLE/WEB TV ----------

DVD ----------

VCR ----------

AUDIO ----------

SAT ----------

CD ----------

VCR2 ----------

DVR ----------

AUX ----------

Pre-Programmed Code Tables

The Automator's Pre-Programmed code library is divided into categories (TV, VCR, AUX, etc.). Each category actually includes many types of components. For example, the VCR category includes TV/VCR combo units.

Within each category, the code numbers are listed in rows by brand (Sony, Panasonic, B & K, etc.). Some brands have more than one three digit code for you to try. Just circle the correct row and refer to it while you setup (step-by-step instructions for using Pre-Programmed codes are found on page 5).

TV	TVs, Plasmas, Projectors and Monitors	Pages	34-36
CABLE	Cable TV and Web TV	Pages	36-37
DVD	DVD Players and Laser Disc Players	Pages	37-39
VCR	VCRs and TV/VCR Combo	Pages	39-41
AUDIO	Amps, Preamps and A/V Receivers	Pages	41-43
SAT	Satellite Receivers	Pages	43
CD	CD Players and Changers	Pages	43-45
DVR	Digital Video Recorders (TiVo, Replay)	Page	45
AUX	Tape Decks, Lighting Controls, Custom Installation Products	Pages	45-47

TV - TVs, Plasmas, Projectors and Monitors

BRAND	CODE NUMBERS
ADMIRAL	072 081 161 160
ADVENT	247
AKAI	197 146 248
A MARK	112 143
AMPRO	167 073 157 183
AMSTRAD	052
ANAM	043 054 056 080 112 131
AOC	197 004 112 058
AUDIOVOX	076
BARCO	233
BLAUPUNKT	088
BROKSONIC	238
CAIRN	201
CANDLE	197 002 003 004
CAPEHART	058
CETRONIC	043
CITIZEN	197 002 003 004 043 101 103 143
CLASSIC	043
CONCERTO	004
CONTEC	043 050 051
CORONADO	143
CRAIG	043 054
CROWN	043 143
CURTIS MATHES	197 101 004 143
CXC	043
DAEWOO	004 016 043 044 076 103 114 125 127 143
DAYTRON	004 143
DREAMVISION	235
DWIN	177 257
DYNASTY	043
DYNATECH	062
EIKI	187
ELECTROHOME	143 024 076 196
EMERSON	028 048 043 155 005 197 004 047 050 051 076 096 143 151 153 154
FISHER	007 057
FUJITSU	198 246
FUNAI	028 043
FUTURETECH	043
GE	160 144 165 073 197 008 009 034 056 074 130 155 161 004 091 157
GOLDSTAR	113 116 102 004 106 112 119 127 143
HALL MARK	004
HITACHI	011 163 166 004 009 010 012 023 075 143 158 072
INFINITY	164
INFOCUS	230
JBL	164
JCPENNEY	004 024 197 008 009 030 065 101 143 156 160
JENSEN	013
JVC	038 034 070 083 145 199 210 240 241
KEC	043
KENWOOD	197 070
KLOSS	002 059
KMC	143
KTV	043 197 143 154
LG	113 116 102 004 106 112 119 127 143
LODGENET	072
LOEWE	164

TV (continued) - TVs, Plasmas, Projectors and Monitors

BRAND	CODE NUMBERS
LOGIK	072
LUXMAN	004
LXI	166 007 015 052 081 160 164
MAGNAVOX	164 059 197 003 060 061 004 063 064 127 022 160 094 239 256
MARANTZ	197 164 184
MATSUI	164
MEMOREX	007 072 004
METZ	088
MGA	197 004 024 028 042
MINERVA	088
MITSUBISHI	109 124 024 004 028 040 042 146 191
MTC	197 004 062 101
NAD	015 025
NEC	132 130 134 197 040 016 024 056 019 236 237
NIKEI	043
ONKING	043
ONWA	043
OPTONICA	019 081
ORION	096
PANASONIC	034 056 080 092 164 208
PHILCO	197 003 059 060 064 164 004 024 056 063
PHILIPS	164 005 093 038 197 003 004 059 127 184 206 239
PIONEER	135 025 197 018 023 116 190 234
PORTLAND	004 143
PROSCAN	144 160 161 165 167
PROTON	004 131 058 143 171 173 193
QUASAR	034 056 092
RADIO SHACK	019 004 143 043 127
RCA	160 165 065 156 144 161 197 004 024 056 152 023 074
REALISTIC	007 019 043 047
ROCTEC	186
RUNCO	168 169 178 179 180 181 182 183 073 157
SAMPO	197 058 004 202
SAMSUNG	050 089 101 105 004 127 143 160 228 229
SANYO	166 007 020 053 057 082 187
SCOTT	028 043 004 048 143
SEARS	015 030 004 007 028 057 143 094 160 082 165 166
SELECO	189 200 205 227
SHARP	081 019 014 170 028 029 004 022 143 175
SIEMENS	088
SIGNATURE	072
SOLE	231 232
SONY	070 139 147 126 185 194 085
SOUNDESIGN	028 004 003 043
SPECTRICON	112
SSS	004 043
SUPRE MACY	002
SYLVANIA	197 003 059 060 063 064 164 044 160 127
TANDY	081
TATUNG	056 062
TECHNICS	034 080
TECHWOOD	004
TEKNIKA	002 003 004 024 028 043 072 101 143
TELEFUNKEN	037 046 086 087
TELERENT	072
TERA	172

TV (continued) - TVs, Plasmas, Projectors and Monitors

BRAND	CODE NUMBERS
TMK	004
TOSHIBA	015 138 030 007 040 062 101
TOTEVISION	143
UNIVERSAL	008 009
VIDEO CONCEPTS	146
VIDIKRON	174 184 188 192
VIDTECH	004
WARDS	004 008 009 019 028 060 061 063 064 072 074 143 164 034
WESTING HOUSE	076
YAMAHA	197 004
YORK	004
YUPITERU	043
ZENITH	073 072 095 103 157 183
ZONDA	112

CABLE - Cable TV and Web TV

BRAND	CODE NUMBERS
ABC	004 103 003 039 042 046 053
ADELPHIA	043 074
ADVANCED NEWHOUSE	043
ALTRIO	043
AMERICAST	099
ARCHER	005 007 014
ARMSTONG	074
AT&T BROADBAND	074
ATLANTIC BROADBAND	043 074
BELL SOUTH	099
BLUE RIDGE	043 074
BRESNAN	074
BUCKEYE COMM	074
CABLEVISION	043 074 108
CENTURION	092
CENTURY	007
CHARTER	043 074
CITIZEN	007
COGECO	074
COMBANO	080 081
COMCAST	043 074
COMSAT	074
COX DIGITAL	043 074
DIGICABLE	101
EAGLE	020 030 040
EASTERN	057 066
ECHOSTAR	106
ELECTRICORD	032
GEMINI	008 054
GENERAL ELECTRIC	072
GENERAL INSTRUMENT	074 103 104
GNC	099
GOLDEN CHANNEL	030
HAMLIN	049 050 055
HITACHI	103 055

CABLE (continued) - Cable TV and Web TV

BRAND	CODE NUMBERS
INSIGHT	074
JERROLD	074 004 103 002 003 008 009 010 069
MAGNAVOX	010 012 064 079 095 094
MASSILLON	074
MEDIA ONE	107
MEDICOM	074
MEMOREX	052
MITSUBISHI	102
MOTOROLA	074
MOVIE TIME	028 032
NCTC	074
NSC	015 028 038 071
OAK	031 037 053
PACE	043 074
PANASONIC	044 047
PARAGON	052
PHILIPS	006 012 013 020 085 095
PIONEER	043 103 034 051 063 076 105
PRUCER	059
PULSAR	052
RCA	047
RCN	074
RECOTON	098
REGAL	049 050
REGENCY	057
RODGERS	043
SAMSUNG	030
SCIENTIFIC ATLANTA	043 011 003 041 042 045 046
SEREN	043
SERVICE ELECTRIC	074
SHAW	074
SIGECOM	043
SONY	096 108
SPRUCER	047 078
STARCOM	002 004 008 009
STARGATE	008 030 097 104
SUSQUEHANNA	043 074
TIME WARNER	043 074
TOCOM	039 040 056
TOSHIBA	052
UNITED CABLE	004 053
UNIVERSAL	005 007 014 032 035
VIDEOTRON	043
VIEWSTAR	012 015 018 086 087 088 089
Wide Open West	043 099
ZENITH	052 060 093 100

DVD - DVD Players and Changers

BRAND	CODE NUMBERS
AIWA	146
ALPINE	098
APEX DIGITAL	087 111 115

DVD (continued) - DVD Players and Changers

BRAND	CODE NUMBERS
DENON	007 080
FUNAI	143
GE	026 027
GOVIDEO	137
HARMAN KARDON	084 140
HITACHI	101
INTEGRA	142
JVC	012
KENWOOD	151
KLH	135
KRELL	104
LEXICON	148
LG	091 057 074
MAGNAVOX	066 096
MARANTZ	083 095
MERIDIAN	153
MITSUBISHI	017
MYRYAD	102 134
NAD	088
NAKAMICHI	103
ONKYO	076 035
PANASONIC	021 042 138 139 144 150
PHILIPS	066 083 095 105
PIONEER	023 092 099 107 108 131
PROCEED	086
PROSCAN	026 027
RCA	026 027
SAMSUNG	056 070 119
SANSUI	154
SANYO	147
SHARP	094
SONY	033 118 145
SYLVANIA	143
SYMPHONIC	143
TATUNG	102
THOMPSON	026 027
TOSHIBA	035 034 130 141
VENTURER	149
YAMAHA	042 089
ZENITH	057 074 091

DVD - Laser Disc Players

BRAND	CODE NUMBERS
DENON	206 207
FUNAI	120
KENWOOD	152 013
MAGNAVOX	032 121
MARANTZ	211
MITSUBISHI	121
NAD	121
OPTIMUS	049 013
PANASONIC	113

DVD (continued) - Laser Disc Players

BRAND	CODE NUMBERS
PHILIPS	032
PIONEER	106 117 121
RADIO SHACK	120
RCA	002
REALISTIC	049
RUNCO	127
SANYO	075
SHARP	152 013
SONY	053 110
TECHNICS	113
THETA DIGITAL	032
TOSHIBA	152 106
YAMAHA	043 129

VCR - VCRs and TV/VCR Combos

BRAND	CODE NUMBERS
AIWA	034 161
AKAI	016 146 043 046 124 125 142
AMPRO	072
ANAM	031
AUDIO DYNAMICS	012 023 039 043
BROOKSONIC	035 037 129
CANON	028 031
CAPEHART	108
CRAIG	003 040 135
CURTIS MATHES	031 041
DAEWOO	111 116 117 119 005 007 010 065 108 110 112
DAYTRON	108
DBX	012 023 039 043
DYNATECH	034 053
ELECTROHOME	059
EMERSON	006 029 035 017 025 027 031 034 036 037 046 101 129 131 138 153 162 116
FISHER	003 010 008 009
FUNAI	034
GE	031 072 147 063 107 109 144
GO VIDEO	132 136 155 040 115
GOLDSTAR	101 106 114 013 020 012 123
HARMAN KARDON	012 045
HITACHI	004 026 150 018 034 043 063 137 160 013
INSTANTREPLAY	031
JCL	031
JCPENNEY	012 013 015 040 066 101
JENSEN	043
JVC	048 043 130 150 055 060 012 031 050 152 166
KENWOOD	014 048 034 047
LG	101 106 114 013 020 012 123
LLOYD	034
LXI	034 003 009 017 106
MAGIN	040
MAGNAVOX	067 031 034 068 041 156 164
MARANTZ	067 069 012 031 156
MARTA	101

VCR (continued) - VCRs and TV/VCR Combos

BRAND	CODE NUMBERS
MATSUI	027 030
MEI	031
MEMOREX	101 003 010 014 031 034 053 072 102 134 139
MGA	045 046 059
MINOLTA	013 020
MITSUBISHI	059 061 151 013 020 045 046 051 142 049 168
MTC	034 040
MULTITECH	024 034
NEC	012 023 039 043 048
NORDMENDE	043
OPTONICA	053 054
ORION	025
PANASONIC	066 070 145 083 133 140 157 163 074 167
PENTAX	013 020 031 063
PHILCO	031 034 067
PHILIPS	031 067 034 101 054 071 156
PILOT	101
PIONEER	021 013 048
PORTLAND	108
PULSAR	072
QUARTZ	002 014
QUASAR	066 145 075
RADIO SHACK	123
RCA	107 109 144 147 158 041 145 013 020 140 034 040
REALISTIC	003 008 010 014 031 034 040 053 054 101
RICO	058
RUNCO	148
SALORA	014
SAMSUNG	102 104 113 115 112 120 032 040 066 107 109 122 125
SANSUI	022 043 048 135
SANYO	003 010 007 014 134 102
SCOTT	017 037 112 129 131
SEARS	003 008 010 014 081 013 101 009 017 073 112
SHARP	149 054 031 159 165
SHINTOM	024
SIGNATURE	034
SONY	056 057 058 077 052 003 078 076 031 149 154
SOUNDESIGN	034
STS	013
SYLVANIA	031 034 059 067
SYMPHONIC	034
TANDY	010 034
TATUNG	039 043
TEAC	034 039 043
TECHNICS	031 070
TEKNIKA	031 019 034 101
THOMAS	034
TMK	006
TOSHIBA	112 131 079 008 059 047 082 013 042 081
TOTEVISION	040 101
UNITECH	040
VECTOR RESEARCH	012
VICTOR	048
VIDEO CONCEPTS	012 034 046 141
VIDEOSONIC	040
WARDS	003 013 017 024 031 034 040 053 054 131

VCR (continued) - VCRs and TV/VCR Combos

BRAND	CODE NUMBERS
YAMAHA	012 034 039 043
ZENITH	072 080 056 048 101 034 058

AUDIO - Amps, Preamps and A/V Receivers

BRAND	CODE NUMBERS
ADC	007
ADCOM	082 092 225 161 269 355 356 366
AIWA	170 018 104 202 203 213 211 188
AKAI	138 189
AMC	125 126 127 128 258 281 282 038
AMEND	054
AMX	196
ANGSTROM	142
ANTHEM	335 336 337 338 339
ARCAM	141
ATLANTIC TECHNOLOGY	342
AUDIO ACCESS	147
AUDIO ALCHEMY	135
AUDIO DESIGN	194 221 011
AUDIO EASE	021 196 207
AUDIO FILE	071
AUDIO MATRIX	167
AUDIO SOURCE	273
AUDIO TECHNICA	134
B & K	096 097
BOSE	070 170 224 347
BRYSTON	023
CARVER	006 028 061 071 201 214 226 180 185 022 029 077 284
CASIO	076
CHIRO	140
CINEMA SOUND	034 134
CITATION	148 272
CLARION	026
COMPAQ	382
CURTIS MATHES	076
DENON	002 034 109 215 229 230 027 037 234 259 330 340 341 349 350
EIGER	149
ELAN	057 290
ENLIGHTENED AUDIO	099 098
ESCIENT	368
FANFARE	352
FISHER	047 214 180 182 297
FLEXTRONICS	378
FOSGATE	062 231
FOSGATE AUDIONICS	342
GE	056 260
GOLDSTAR	008
HAFLER	174
HARMAN KARDON	231 233 254 153 154 118 121 227 277 317 318 365
HITACHI	020
IMERGE	371
INKEL	197

AUDIO (continued) - Amps, Preamps and A/V Receivers

BRAND	CODE NUMBERS
INTEGRA	354
JBL	263
JCPENNEY	076 216
JEFF ROWLAND	206
JENSEN	058
JVC	240 163 191 114 266 279 291
KENWOOD	026 066 145 146 181 190 197 192 182 199 151 222 180 005 280 374
KINERGETICS	220 140
KLH	331
KOSS	216
KRELL	150 072 376
KYOCERA	007
LEXICON	120 235 236 237 357 358 359 360 361 362 363 364
LINN	124 377
LUXMAN	137 139 052 165 115 004 009
LXI	076 056
MAGNAVOX	086 164 152 208
MARANTZ	006 028 031 040 063 185 186 251 265 119 289 296
MCINTOSH	238 286
MCS	076
MERIDIAN	100 012 013
MITSUBISHI	242 243 204
MONDIAL	157 158 042 043 081 112
MYRYAD	276 293
NAD	186 113 283
NAKAMICHI	111 244 245 172 183 287
NEC	176
NIRO	343
ONKYO	017 046 064 107 108 187 079 080 090 179 209 270 275
OPTIMUS	026 041 138
OUTLAW	342
PANASONIC	032 195 219 177 292
PARASOUND	129 130 132 261 294 295 333 334
PHAST	196
PHILIPS	249 250 251 063 119
PIONEER	014 033 039 044 045 050 069 159 168 116 035 078 198
POLKAUDIO	029
PROCEED	144 268
RCA	010 048 117 156 067 288
REALISTIC	019 056 073 075 095
REQUEST	351
REVOX	162
ROTEL	074 083 085
SAMSUNG	016
SANSUI	040 048 110 119 065 228
SANYO	047 059
SCOTT	019 091
SEARS	076
SHARP	026 094 131 175 181
SHERWOOD	024 038 055 102 103 105 106 051 030
SONY	018 093 223 247 248 160 166 015 101 184 218 271 353 369 372
SOUNDESIGN	036
SOUNDMATTERS	375
SOUNDSTREAM	084 088
SSI	068
SUMO	171

AUDIO (continued) - Amps, Preamps and A/V Receivers

BRAND	CODE NUMBERS
SUNFIRE	344 345 346
TAEKWANG	138
TEAC	005 019 049 111 212 217
TECHNICS	122 176 193 219 178 177 200 257 262
THETA DIGITAL	136
TOSHIBA	060 087 198 278
WARDS	180
YAMAHA	026 253 169 067 173 205 264 232 089 264 274 285 332 373
ZENITH	143 210

SAT - DSS Satellite Receivers

BRAND	CODE NUMBERS
CABLEVISION / VOOM	148
ECHOSTAR / DISH	122
EXPRESSVU	122
GENERAL ELECTRIC	151 106 150
GENERAL INSTRUMENT	148
GOI	122
HITACHI	139 140
HTS	122
HUGHES	161 162 068 154 165 166 108 117
JVC	122
MAGNAVOX	136
MEMOREX	136
MITSUBISHI	068 154
MOTOROLA	148
NEXT LEVEL	148
PANASONIC	142 160
PAYSAT	136
PHILIPS	152 153 156 068 154 136 108 117
PROSCAN	151 106 150
RADIOSHACK	148
RCA	151 106 150
SAMSUNG	123 155 163
SKY	164
SONY	103
STAR CHOICE	148
TOSHIBA	127 068 154 157 158
UNIDEN	136
ZENITH	159

CD - CD Players and Changers

BRAND	CODE NUMBERS
ADCOM	062 042
AIWA	059 065 088 089 105 122 170 187
AKAI	085 195 202
AMC	231 232
AMEND	118

CD (continued) - CD Players and Changers

BRAND	CODE NUMBERS
ARCAM	238
AUDIO ACCESS	119 147
AUDIO EASE	165
AUDIO TECHNICA	046
BSR	037 057
CALIFORNIA AUDIO	103 008
CAPETRONIC	063
CARRERA	057 080
CARVER	185 041 044 050 086 107 130 134 135 138 139 203 204 167
CASIO	111 182
CLARINETTE	182
CREEK	159
CROWN	035
DENON	002 123
EMERSON	042 069 102
FISHER	050 185 134 008
FRABA	111
GENEXXA	010 069 102
GOLDSTAR	080
HAITAI	093
HARMAN KARDON	018 033 047 208
HITACHI	042 175
INKEL	130 143 144
JCPENNEY	014 061 092 141
JENSEN	158
JVC	004 022 136 163 213 214 242 243
KENWOOD	185 007 023 055 071 072 142 137 254
KOSS	061
KRELL	241
KYOCERA	005
LOTTE	102
LUXMAN	011 028 070 076 249 252
LXI	059
MAGNAVOX	044 107
MARANTZ	027 041 044 051 077 107 209 246
MCINTOSH	212 247
MCS	014 073 092
MEMOREX	010
MISSION	044 107
MITSUBISHI	179
MITSUMI	153
MODULAIRE	182
MONDIAL	147
MYRYAD	244 155
NAD	006 005 067 178
NAKAMICHI	217 218 219 095
NEC	014 062
NIKKO	046
NSM	044 107
ONKYO	030 038 039 168 169
OPTIMUS	010 050 057 058 081 082 083 085 093 195
PANASONIC	103 201 172 008 068 248
PARASOUND	233 240
PHILIPS	041 044 107 246 253
PIONEER	010 020 025 056 174 175 176
PROCEED	239

CD (continued) - CD Players and Changers

BRAND	CODE NUMBERS
PROTON	044 107 228
QUASAR	103 008
RADIO SHACK	182
RCA	017 042 150
REALISTIC	042 050 051 102 181 182 187
ROTEL	044 107 161 178 250
SAE	044 107
SANSUI	044 069 107 128 171 190 125
SANYO	050
SCOTT	069 102
SHARP	026 031 051 066
SHERWOOD	003 019 051 096 112 115 119 166
SIGNATURE	033
SONY	048 081 097 126 133 177 225 226 164
SOUNDESIGN	251
SUMO	155
SYLVANIA	044 107
SYMPHONIC	052 181
TAEKWANG	195 085
TANDY	010
TEAC	015 034 036 051 052 101 131 140 079
TECHNICS	060 103 200 172 184 008 068
TECHWOOD	076
THETA DIGITAL	234 235
TOSHIBA	006 067 091 160 148
VECTOR RESEARCH	080
VICTOR	004 022 114 124
WARDS	185 033
YAMAHA	024 046 054 186 183 245
YORX	182

DVR - Digital Video Recorder (TiVo, Replay)

BRAND	CODE NUMBERS
ECHOSTAR / DISH	122
HUGHES	108 117
JVC	122
PHILIPS	108 090 117
RCA	109
REPLAY NETWORKS	075
SONY	104 105
TIVO	090 117

AUX - Tape Decks

BRAND	CODE NUMBERS
AIWA	015 071 100 114
CARVER	006 008 027 024 036
DENON	105 227 229
FISHER	064

AUX (continued) - Tape Decks

BRAND	CODE NUMBERS
GOLDSTAR	011
HARMAN KARDON	233
JVC	106 116 239 240
KENWOOD	005 013 023 026 064 145 146 181 190
LINN	124
LUXMAN	035 137 139
MAGNAVOX	027
MARANTZ	014 027 056 065 087
MCINTOSH	238
MITSUBISHI	242 243
NAD	029 048
NAKAMICHI	244 245 025
ONKYO	002 012 016 017 018 019 115
OPTIMUS	026 054 055
PANASONIC	007 010 032 088 195
PHILIPS	027 087
PIONEER	003 039 047 050 066 098 222
QUASAR	007 088
SANSUI	027 113 119 224
SHARP	026 057 131 175 181
SHERWOOD	038 004 028 030 033 034
SONY	020 022 052 084 089
TEAC	009 059 212
TECHNICS	007 010 076 088 109 122 193
TOSHIBA	112
VICTOR	106
YAMAHA	021 026 031 067 040

AUX - Custom Installation Products

BRAND	CODE NUMBERS
3M	152
AIWA	164
ARCHER	155
AURORA MULTIMEDIA	220
AUTON	191
CELADON	221
CRESTRON	213 214 215 216 217 218
DMX	156
DRAPER SCREEN	204
DREAMVISION	097
DWIN	080 253
EVERQUEST	206
EXTRON	151
FAROUDJA	184
FUJI	209
HUNTERDOUGLAS	219
JERROLD	153
JVC	185
KENWOOD	185
LITE-TOUCH	208 257
LUTRON	158 159 077
MAKITA	186 201

AUX (continued) - Custom Installation Products

BRAND	CODE NUMBERS
MINDPATH	205
NILES	160 187
NSM	161
PIANO DISC PLUS	085
POLKAUDIO	162
RUSSOUND	081
SCIENTIFIC ATLANTA	163 156
SIMA	082
SOLO ELECTRONICS	207
SOMFY	078 079
SONY	164 165 166
STARCOM	153
TURBOSCAN	167
VELODYNE	203
X-10	183 093
XANTECH	168 169 170 171 172 188 189

Frequently Asked Questions

What is a "macro" button?

It is an Automator button you set to make a lot of things happen when you press it. For example, to watch a DVD in most home theaters requires several remote controls and many button presses (power up the TV, power up the surround sound, power up the DVD player, set the TV to the correct video input, set the surround sound to the correct audio input and finally; press play on the DVD player remote control).

Instead of pressing all of those buttons one at a time, the Automator enables you to setup one button that does it all automatically with one press. For more information on how and why you should setup macro buttons, watch the Quick Setup DVD tutorial or read pages 20-21.

If the batteries run out, will I lose my settings?

No. The Automator stores all of your settings in non-volatile FLASH memory. You could remove the batteries for months, replace them at your convenience and the Automator would still remember your settings.

Who can I call for more answers?

The Universal Remote Control technical support and customer service staff are ready to answer any questions you might have.

Call us at 1-914-835-4484
Monday - Friday, 9AM to 6PM (EST)

Warranty

The URC-200 is covered against any manufacturers defects or workmanship for a period of one year from the date of purchase if purchased from an authorized Universal Remote Control dealer. Units purchased from online auction sites or other unauthorized resellers have no warranty. This warranty does not cover the following items:

- Damage from misuse, neglect, or acts of nature.
- Products that have been modified or incorporated into other products.
- Products purchased more than 12 months ago.
- Units purchased from unauthorized dealers or companies.

Specifications

Learning Capability - 720 IR commands at standard frequencies (15kHz to 100kHz)
Macro Capability - 472 Macros of up to 190 steps each
IR Range (Line of Sight via Infrared): 30-50 feet, depending on the environment
RF Range (radio frequency): 50 to 100 feet, depending upon the environment
RF Frequency: 418MHz
Weight: 8 oz. (with batteries)
Size: 8.5″ x 2.5″ x 1″
Batteries: Four AAA Alkaline batteries included
LCD Size: 1.9″ x 0.9″

MEMO

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UNIVERSAL®
remote control
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www.universalremote.com

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